



## NOAA's Office of Response and Restoration

**T**he Office of Response and Restoration provides world-class, science-based solutions to pollution threatening our oceans and coasts.

### Oil and Chemical Spill Preparedness and Response

The Office of Response and Restoration's (OR&R) scientists prepare for and respond to oil and chemical spills. We forecast the movement and behavior of spilled oil and chemicals, evaluate the risk to natural resources, and recommend the right cleanup action. OR&R ensures our nation is ready for the next oil spill by developing tools critical for tracking oil, conducting spill readiness training, and working closely with partners and industry in response exercises and contingency planning.

### Natural Resource Damage Assessment and Restoration

OR&R works closely with other federal and state trustees and the responsible party to assess and restore resources injured by oil spills, by releases from hazardous waste sites, and vessel groundings on corals and seagrass beds. We ensure the public's natural resources are restored. NOAA has protected



Restoration of wetlands and salmon habitat at Commencement Bay, WA.

natural resources at more than 500 hazardous waste sites, and worked cooperatively with other trustees to generate over \$450 million for restoration.

To date, over 6,300 acres of wetlands, coral reefs, oyster reefs, and other important habitats have been restored.

### Marine Debris Research, Prevention, and Reduction

OR&R has a lead role in addressing marine debris in the United States.

Since 2005 it has undertaken national and international efforts focused on researching, reducing, and preventing debris in the marine environment. The



In FY2009, NOAA removed 36 metric tons of debris, mainly derelict fishing nets, from the Northwest Hawaiian Islands coral reefs.

Spill from oil platform in the Gulf of Mexico (left).



Office continues to support and work closely with various partners across the U.S. to fulfill its mission.

## FY 2009 Accomplishments

- Responded to approximately 170 oil and chemical spills in coastal waters.
- Proactively working with U.S. and international partners to improve oil spill response and restoration capabilities in the Arctic.
- Completed the Environmental Management Response Application (ERMA) for the Caribbean. ERMA is a geographic information system (GIS) tool that improves communication, coordination, and decision making among emergency responders.
- Released new versions of Computer Aided



Proposed freshwater tidal wetland restoration at John Heinz National Wildlife Refuge, PA, following M/T Athos I oil spill in the Delaware River.

**CAMEO Chemicals**

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**CHLORINE**

Chemical Identifiers | Hazards | Response Recommendations | Physical Properties | Regulatory Information | Alternate Chemical Names

Chemical Identifiers  
[What is this information?](#)

UN/NA Number	CAS Number	CHRIS Code	DOT Hazard Label
1017	7782-50-5	CLX	POISON GAS CORROSIVE

NFPA 704: Red 0 -- Flammability: Will not burn

The CAMEO chemical database includes information on thousands of chemicals widely used by fire fighters and first responders during chemical incidents.

Management of Emergency Operations (CAMEO) software suite.

- Restored more than 2,500 acres of coastal wetlands in Port Arthur, Texas.
- Successfully completed the Gulf of Mexico Marine Debris Project. This project surveyed over 1,500 square nautical miles of water along the Gulf Coast and detected



- more than 5,000 submerged items that posed threats to the environment and navigation.
- Released draft Damage Assessment and Restoration Plan for the Athos I oil spill. This plan will restore habitat injured by the 264,000 gallons the M/T Athos I oil spill into the Delaware River.
- With the addition of two more settlements in FY09, OR&R has recovered approximately \$40M for natural resource restoration of Commencement Bay Washington.
- Expanded the "Fishing for Energy Partnership" with Covanta Energy Corporation. This partnership converts derelict fishing gear to energy. Approximately one ton of derelict net creates enough electricity to power one home for 25 days.
- Achieved significant progress on NOAA's Gulf of Mexico Disaster Response Center.
- Continues to work closely with the U.S. Department of Defense to begin assessing the potential environmental impacts from underwater disposed military munitions near Oahu, Hawaii.

Removal of marine debris from Lake Pontchartrain (left). Photo courtesy of Louisiana Department of Wildlife and Fisheries.

For further information about NOAA's Office of Response and Restoration, visit our Web site at [response.restoration.noaa.gov](http://response.restoration.noaa.gov)

